

FORM PTO-1449 (REV.7-80)				U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 920043.406	APPLICATION NO. 09/543,407
<b>INFORMATION DISCLOSURE STATEMENT</b> <small>(Use separate sheets if necessary)</small>				APPLICANTS Aaron P. White et al.		
				FILING DATE April 5, 2000	GROUP ART UNIT 1645	

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	AB				

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

WJ	AC	Abraham et al., "Protection Against <i>Escherichia coli</i> -Induced Urinary Tract Infections with Hybridoma Antibodies Directed Against Type 1 Fimbriae or Complementary D-Mannose Receptors," <i>Infection and Immunity</i> 48(3): 625-628, June 1985.
	AD	Aizawa et al., "Termini of <i>Salmonella</i> Flagellin are Disordered and Become Organized upon Polymerization into Flagellar Filament," <i>J. Mol. Biol.</i> 211: 673-677, 1990.
	AE	Allen-Vercoe et al., "SEF17 fimbriae are essential for the convoluted colonial morphology of <i>Salmonella enteritidis</i> ," <i>FEMS Microbiology Letters</i> 153: 33-42, 1997.
	AF	Austin et al., "Thin aggregative fimbriae enhance <i>Salmonella enteritidis</i> biofilm formation," <i>FEMS Microbiology Letters</i> 162: 295-301, 1998.
	AG	Bakker et al., "K88 fimbriae as carriers of heterologous antigenic determinants," <i>Microbial Pathogenesis</i> 8: 343-352, 1990.
	AH	Baumann et al., "Three-dimensional structure of the alkaline protease of <i>Pseudomonas aeruginosa</i> : a two-domain protein with a calcium binding parallel beta roll motif," <i>The EMBO Journal</i> 12(9): 3357-3364, 1993.
	AI	Baumann et al., "Crystal Structure of a Complex Between <i>Serratia marcescens</i> Metallo-protease and an Inhibitor from <i>Erwinia chrysanthemi</i> ," <i>J. Mol. Biol.</i> 248: 653-661, 1995.
	AJ	Baumann, U., "Crystal Structure of the 50 kDa Metallo Protease from <i>Serratia marcescens</i> ," <i>J. Mol. Biol.</i> 242(3): 244-251, 1994.
	AK	Bäumler et al., "Contribution of Horizontal Gene Transfer and Deletion Events to Development of Distinctive Patterns of Fimbrial Operons during Evolution of <i>Salmonella</i> Serotypes," <i>Journal of Bacteriology</i> 179(2): 317-322, January 1997.
✓	AL	Bäumler and Heffron, "Identification and Sequence Analysis of <i>lpfABCDE</i> , a Putative Fimbrial Operon of <i>Salmonella typhimurium</i> ," <i>Journal of Bacteriology</i> 177(8): 2087-2097, April 1995.

EXAMINER	<i>Vanessa Hanc</i>	DATE CONSIDERED
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INFORMATION DISCLOSURE STATEMENT <small>(See Trademark Sheets if necessary)</small>			APPLICANTS Aaron P. White et al.		
			FILING DATE April 5, 2000	GROUP ART UNIT 1645	

JUL 1 2001  
PATENT & TRADEMARK OFFICE  
U.S. DEPARTMENT OF COMMERCE  
1000 LEAVITT ST.  
DENVER CO 80202-3220**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	BB				

**OTHER PRIOR ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

BC	Bernstein et al., "The Protein Data Bank: A Computer-based Archival File for Macromolecular Structures," <i>J. Mol. Biol.</i> 112: 535-542, 1977.
BD	Bérubé et al., "Repression of Human Immunodeficiency Virus Type 1 Long Terminal Repeat-Driven Gene Expression by Binding of the Virus to Its Primary Cellular Receptor, the CD4 Molecule," <i>Journal of Virology</i> 70(6): 4009-4016, June 1996.
BE	Bian and Normark, "Nucleator function of CsgB for the assembly of adhesive surface organelles in <i>Escherichia coli</i> ," <i>The EMBO Journal</i> 16(19): 5827-5836, 1997.
BF	Braunagel and Benedik, "The metalloprotease gene of <i>Serratia marcescens</i> strain SM6," <i>Mol. Gen. Genet.</i> 222: 446-451, 1990.
BG	Brinton, C.C. Jr., "The Structure, Function, Synthesis and Genetic Control of Bacterial Pili and a Molecular Model for DNA and RNA Transport in Gram Negative Bacteria," <i>Transactions of the New York Academy of Sciences</i> 27: 1003-1054, 1965.
BH	Cárdenas and Clements, "Stability, immunogenicity and expression of foreign antigens in bacterial vaccine vectors," <i>Vaccine</i> 11(2): 126-135, 1993.
BI	Cattozzo et al., "Expression and immunogenicity of V <sub>3</sub> loop epitopes of HIV-1, isolates SC and WMJ2, inserted in <i>Salmonella</i> flagellin," <i>Journal of Biotechnology</i> 56: 191-203, 1997.
BJ	Caulcott et al., "Investigation of the Effect of Growth Environment on the Stability of Low-copy-number Plasmids in <i>Escherichia coli</i> ," <i>Journal of General Microbiology</i> 133: 1881-1889, 1987.
BK	Chatfield et al., "The development of oral vaccines based on live attenuated <i>Salmonella</i> strains," <i>FEMS Immunology and Medical Microbiology</i> 7: 1-8, 1993.
BL	Chatfield et al., "Evaluation of <i>Salmonella typhimurium</i> strains harbouring defined mutations in <i>htrA</i> and <i>aroA</i> in the murine salmonellosis model," <i>Microbial Pathogenesis</i> 12: 145-151, 1992.

EXAMINER *[Signature]* DATE CONSIDERED *02/18/02*

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	CA					

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
	CB			YES NO

**OTHER PRIOR ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

MJ	CC	Clouthier et al., "tRNA <sup>Arg</sup> ( <i>fimU</i> ) and Expression of SEF14 and SEF21 in <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> 180(4): 840-845, February 1998.
	CD	Clouthier et al., "Characterization of Three Fimbrial Genes, <i>sefABC</i> , of <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> 175(9): 2523-2533, May 1993.
	CE	Clouthier et al., "Periplasmic and fimbrial SefA from <i>Salmonella enteritidis</i> ," <i>Biochimica et Biophysica Acta</i> 1387: 355-368, 1998.
	CF	Cohen et al., "Structural Clues to Prion Replication," <i>Science</i> 264: 530-531, April 22, 1994.
	CG	Collinson et al., "Purification and Characterization of Thin, Aggregative Fimbriae from <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> 173(15): 4773-4781, August 1991.
	CH	Collinson et al., "Thin Aggregative Fimbriae from Diarrheagenic <i>Escherichia coli</i> ," <i>Journal of Bacteriology</i> 174(13): 4490-4495, July 1992.
	CI	Collinson et al., "Thin, Aggregative Fimbriae Mediate Binding of <i>Salmonella enteritidis</i> to Fibronectin," <i>Journal of Bacteriology</i> 175(1): 12-18, January 1993.
	CJ	Collinson et al., " <i>Salmonella enteritidis agfBAC</i> Operon Encoding Thin, Aggregative Fimbriae," <i>Journal of Bacteriology</i> 178(3): 662-667, February 1996.
	CK	Collinson et al., "Structural Predictions of AgfA, the Insoluble Fimbrial Subunit of <i>Salmonella</i> Thin Aggregative Fimbriae," <i>J. Mol. Biol.</i> 290: 741-756, 1999.
	CL	Collinson et al., "The location of four fimbrin-encoding genes, <i>agfA</i> , <i>fimA</i> , <i>sefA</i> and <i>sefD</i> , on the <i>Salmonella enteritidis</i> and/or <i>S. typhimurium XbaI-BlnI</i> genomic restriction maps," <i>Gene</i> 169: 75-80, 1996.
U	CM	Coulson et al., "Effect of different plasmids on colonization of mouse tissues by the aromatic amino acid dependent <i>Salmonella typhimurium</i> SL 3261," <i>Microbial Pathogenesis</i> 16: 305-311, 1994.

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	DA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	DB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NY	DC	Cowan et al., "Crystallographic Studies on a Family of Cellular Lipophilic Transport Proteins," <i>J. Mol. Biol.</i> 230: 1225-1246, 1993.
	DD	Curtiss III. et al., "Recombinant <i>Salmonella</i> Vectors in Vaccine Development," <i>Developments in Biological Standardization</i> 82: 23-33, 1994.
	DE	de Graaf and Bakker, <i>Molecular Recognition in Host-Parasite Interactions</i> , Korbonen et al. (eds.), Plenum Press, New York, 1992, "Properties and Synthesis of K88 Fimbriae," pp. 39-46.
	DF	Der Vartanian et al., "Permissible peptide insertions surrounding the signal peptide-mature protein junction of the ClpG prepilin: CS31A fimbriae of <i>Escherichia coli</i> as carriers of foreign sequences," <i>Gene</i> 148: 23-32, 1994.
	DG	Der Vartanian et al., "An <i>Escherichia coli</i> CS31A fibrillum chimera capable of inducing memory antibodies in outbred mice following booster immunization with the enteropathogenic coronavirus transmissible gastroenteritis virus," <i>Vaccine</i> 15(2): 111-120, 1997.
	DH	Doran et al., "DNA-Based Diagnostic Tests for <i>Salmonella</i> Species Targeting <i>agfA</i> , the Structural Gene for Thin, Aggregative Fimbriae," <i>Journal of Clinical Microbiology</i> 31(9): 2263-2273, September 1993.
	DI	Edwards et al., "Improved allelic exchange vectors and their use to analyze 987P fimbria gene expression," <i>Gene</i> 207: 149-157, 1998.
	DJ	Eshdat et al., "Dissociation and Reassembly of <i>Escherichia coli</i> Type 1 Pili," <i>Journal of Bacteriology</i> 148(1): 308-314, October 1981.
	DK	Evans et al., "Hemagglutination of Human Group A Erythrocytes by Enterotoxigenic <i>Escherichia coli</i> Isolated from Adults with Diarrhea: Correlation with Colonization Factor," <i>Infection and Immunity</i> 18: 330-337, 1977.

EXAMINER *Manena*

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FORM PTO-149 (REV.7-80)	JUL 12 2001	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 920043.406	APPLICATION NO. 09/543,407
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	EA						

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					YES      NO
	EB				

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

WJ	EC	Feutrier et al., "Purification and Characterization of Fimbriae from <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> 168(1): 221-227, October 1986.
	ED	Fields et al., "Mutants of <i>Salmonella typhimurium</i> that cannot survive within the macrophage are avirulent," <i>Proc. Natl. Acad. Sci. USA</i> 83: 5189-5193, July 1986.
	EE	Firth et al., <i>Escherichia Coli and Salmonella</i> , Neidhardt et al. (eds.), ASM Press, Washington, D.C., 1996, Section C, Chapter 126, "Structure and Function of the F Factor and Mechanism of Conjugation," pp. 2377-2401.
	EF	Flynn et al., "Generation of a cytotoxic T-lymphocyte response using a <i>Salmonella</i> antigen-delivery system," <i>Molecular Microbiology</i> 4(12): 2111-2118, 1990.
	EG	Fullner et al., "Pilus Assembly by <i>Agrobacterium</i> T-DNA Transfer Genes," <i>Science</i> 273: 1107-1109, August 23, 1996.
	EH	Gaastra and De Graaf, "Host-Specific Fimbrial Adhesins of Noninvasive Enterotoxigenic <i>Escherichia coli</i> Strains," <i>Microbiological Reviews</i> 46(2): 129-161, June 1982.
	EI	Galán, J.E., "Molecular genetic bases of <i>Salmonella</i> entry into host cells," <i>Molecular Microbiology</i> 20(2): 263-271, 1996.
	EJ	Girardeau et al., "Sequence Analysis of the <i>clpG</i> Gene, Which Codes for Surface Antigen CS31A Subunit: Evidence of an Evolutionary Relationship between CS31A, K88, and F41 Subunit Genes," <i>Journal of Bacteriology</i> 173(23): 7673-7683, December 1991.
	EK	Girardeau and Bertin, "Pilins of fimbrial adhesins of different member species of Enterobacteriaceae are structurally similar to the C-terminal half of adhesin proteins," <i>FEBS Letters</i> 357: 103-108, 1995.
✓	EL	Gong and Makowski, "Helical Structure of P Pili from <i>Escherichia coli</i> ," <i>J. Mol. Biol.</i> 228: 735-742, 1992.

EXAMINER *Monica A. Ford* DATE CONSIDERED *02/18/02*

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	FA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	FB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

W	FC	Griffiths et al., "Cell adhesion molecules in bladder cancer: soluble serum E-cadherin correlates with predictors of recurrence," <i>British Journal of Cancer</i> 74: 579-584, 1996.
	FD	Ha et al., "Use of the green fluorescent protein as a marker in transfected <i>Leishmania</i> ," <i>Molecular and Biochemical Parasitology</i> 77: 57-64, 1996.
	FE	Hackett, J., "Use of <i>Salmonella</i> for heterologous gene expression and vaccine delivery systems," <i>Current Opinion in Biotechnology</i> 4: 611-615, 1993.
	FF	Hamilton et al., "New Method for Generating Deletions and Gene Replacements in <i>Escherichia coli</i> ," <i>Journal of Bacteriology</i> 171(9): 4617-4622, September 1989.
	FG	Hammar et al., "Nucleator-dependent intercellular assembly of adhesive curli organelles in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93: 6562-6566, June 1996.
	FH	Hammar et al., "Expression of two <i>csg</i> operons is required for production of fibronectin- and Congo red-binding curli polymers in <i>Escherichia coli</i> K-12," <i>Molecular Microbiology</i> 18(4): 651-670, 1995.
	FI	Hashimoto-Gotoh et al., "Specific-purpose plasmid cloning vectors I. Low copy number, temperature-sensitive, mobilization-defective pSC101-derived containment vectors," <i>Gene</i> 16: 227-235, 1981.
	FJ	Heck et al., "Three-Dimensional Structure of <i>Bordetella pertussis</i> Fimbriae," <i>Journal of Structural Biology</i> 116: 264-269, 1996.
	FK	Hedegaard and Klemm, "Type 1 fimbriae of <i>Escherichia coli</i> as carriers of heterologous antigenic sequences," <i>Gene</i> 85(1): 115-124, December 21, 1989.
V	FL	Ho et al., "The Pili of <i>Aeromonas hydrophila</i> : Identification of an Environmentally Regulated "Mini Pilin," <i>J. Exp. Med.</i> 172: 795-806, September 1990.

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FORM PTO-1469 (REV.7-80)	JUL 12 2001	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 920043.406	APPLICATION NO. 09/543,407
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Aaron P. White et al.		
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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES      NO
	GB				

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

WY	GC	Hobohm and Sander, "A Sequence Property Approach to Searching Protein Databases," <i>J. Mol. Biol.</i> 251: 390-399, 1995.
	GD	Hone et al., "A chromosomal integration system for stabilization of heterologous genes in <i>Salmonella</i> based vaccine strains," <i>Microbial Pathogenesis</i> 5: 407-418, 1988.
	GE	Horton et al., "Engineering hybrid genes without the use of restriction enzymes: gene splicing by overlap extension," <i>Gene</i> 77: 61-68, 1989.
	GF	Hultgren et al., <i>Escherichia Coli and Salmonella, Cellular and Molecular Biology</i> , Neidhardt et al. (eds.), ASM Press, Washington, D.C., 1996, Chapter 150, "Bacterial Adhesins and Their Assembly," pp. 2730-2756.
	GG	Hultgren et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," <i>Cell</i> 73: 887-901, June 4, 1993.
	GH	Hung et al., "Molecular basis of two subfamilies of immunoglobulin-like chaperones," <i>The EMBO Journal</i> 15(15): 3792-3805, 1996.
	GI	Ingmer and Cohen, "The pSC101 par Locus Alters Protein-DNA Interactions In Vivo at the Plasmid Replication Origin," <i>Journal of Bacteriology</i> 175(18): 6046-6048, September 1993.
	GJ	Jäger et al., "Expression of the <i>Bacillus subtilis</i> <i>sacB</i> Gene Leads to Sucrose Sensitivity in the Gram-Positive Bacterium <i>Corynebacterium glutamicum</i> but Not in <i>Streptomyces lividans</i> ," <i>Journal of Bacteriology</i> 174(16): 5462-5465, August 1992.
	GK	Jardim et al., "Immunoprotective <i>Leishmania major</i> Synthetic T Cell Epitopes," <i>J. Exp. Med.</i> 172: 645-648, August 1990.
✓	GL	Jennings et al., "Fimbriae of <i>Bacteroides nodosus</i> : protein engineering of the structural subunit for the production of an exogenous peptide," <i>Protein Engineering</i> 2(5): 365-369, 1989.

EXAMINER *Aaron P. White* DATE CONSIDERED *02/18/02*

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FORM PTO-149 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 920043.406	APPLICATION NO. 09/543,407
JUL 12 2001 INFORMATION DISCLOSURE STATEMENT <i>(See several sheets if necessary)</i>		APPLICANTS Aaron P. White et al.			
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## U.S. PATENT DOCUMENTS

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	HA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	HB				

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

WY	HC	Jones et al., "The three-dimensional structure of P2 myelin protein," <i>The EMBO Journal</i> 7(6): 1597-1604, 1988.
	HD	Jones et al., "The chaperone-assisted membrane release and folding pathway is sensed by two signal transduction systems," <i>The EMBO Journal</i> 16(21): 6394-6406, 1997.
	HE	Kaniga et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the blaA gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109: 137-141, 1991.
	HF	Kisker et al., "A left-handed β-helix revealed by the crystal structure of a carbonic anhydrase from the archaeon <i>Methanosarcina thermophila</i> ," <i>The EMBO Journal</i> 15(10): 2323-2330, 1996.
	HG	Klemm, P., "The fimA gene encoding the type-1 fimbrial subunit of <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> 143: 395-399, 1984.
	HH	Klemm and Krogfelt, <i>Fimbriae: Adhesion, Genetics, Biogenesis, and Vaccines</i> , Klemm (ed.), CRC Press, Boca Raton, 1994, Chapter 1, "Type 1 Fimbriae of <i>Escherichia coli</i> ," pp. 9-26.
	HI	Kobe and Deisenhofer, "Crystal structure of porcine ribonuclease inhibitor, a protein with leucine-rich repeats," <i>Nature</i> 366: 751-756, December 1993.
	HJ	Korhonen et al., "New Method for Isolation of Immunologically Pure Pili from <i>Escherichia coli</i> ," <i>Infection and Immunity</i> 27(2): 569-575, February 1980.
	HK	Kuehn et al., <i>Fimbriae: Adhesion, Genetics, Biogenesis, and Vaccines</i> , Klemm (ed.), CRC Press, Boca Raton, 1994, Chapter 3, "Structure, Function, and Biogenesis of <i>Escherichia coli</i> P Pili," pp. 37-51.
✓	HL	Kuehn et al., "P pili in nonpathogenic <i>E. coli</i> are composite fibres with distinct fibrillar adhesive tips," <i>Nature</i> 356: 252-255, March 19, 1992.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Aaron P. White et al.	FILING DATE April 5, 2000	

U.S. PATENT DOCUMENTS						
EXAMINER NAME & TRA DEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA					

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	AB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TA	AC	Lai and Kado, "Processed VirB2 Is the Major Subunit of the Promiscuous Pilus of <i>Agrobacterium tumefaciens</i> ," <i>Journal of Bacteriology</i> 180(10): 2711-2717, May 1998.
	AD	Leathart and Gally, "Regulation of type 1 fimbrial expression in uropathogenic <i>Escherichia coli</i> : heterogeneity of expression through sequence changes in the <i>fim</i> switch region," <i>Molecular Microbiology</i> 28(2): 371-381, 1998.
	AE	Levi and Arnon, "Synthetic recombinant influenza vaccine induces efficient long-term immunity and cross-strain protection," <i>Vaccine</i> 14(1): 85-92, 1996.
	AF	Levine et al., <i>Fimbriae: Adhesion, Genetics, Biogenesis, and Vaccines</i> , Klemm (ed.), CRC Press, Boca Raton, 1994, Chapter 18, "Fimbrial Vaccines," pp. 255-270.
	AG	Levine et al., "Attenuated <i>Salmonella</i> as live oral vaccines against typhoid fever and as live vectors," <i>Journal of Biotechnology</i> 44: 193-196, 1996.
	AH	Lietzke et al., "The Three-Dimensional Structure of Pectate Lyase E, a Plant Virulence Factor from <i>Erwinia chrysanthemi</i> ," <i>Plant Physiology</i> 106: 849-862, 1994.
	AI	Link et al., "Methods for Generating Precise Deletions and Insertions in the Genome of Wild-Type <i>Escherichia coli</i> : Application to Open Reading Frame Characterization," <i>Journal of Bacteriology</i> 179(20): 6228-6237, October 1997.
	AJ	Lintemanns et al., "Isolation and Nucleotide Sequence of the F17-A Gene Encoding the Structural Protein of the F17 Fimbriae in Bovine Enterotoxigenic <i>Escherichia coli</i> ," <i>Infection and Immunity</i> 56(6): 1475-1484, June 1988.
	AK	Locksley et al., "Susceptibility to Infectious Diseases: <i>Leishmania</i> as a Paradigm," <i>The Journal of Infectious Diseases</i> 179(suppl. 2): S305-S308, 1999.
✓	AL	Loferer et al., "Availability of the fibre subunit CsgA and the nucleator protein CsgB during assembly of fibronectin-binding <i>curli</i> is limited by the intracellular concentration of the novel lipoprotein CsgG," <i>Molecular Microbiology</i> 26(1): 11-23, 1997.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(use several sheets if necessary)</i>		APPLICANTS Aaron P. White et al.	TECH CENTER 1600 AUG 24 2001 RECEIVED
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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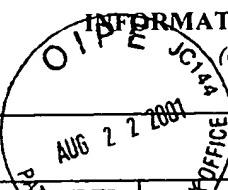
OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

MJ	BC	Loric et al., "Enhanced Detection of Hematogenous Circulating Prostatic Cells in Patients with Prostate Adenocarcinoma by Using Nested Reverse Transcription Polymerase Chain Reaction Assay Based on Prostate-Specific Membrane Antigen," <i>Clin. Chem.</i> 41(12): 1698-1704, 1995.
	BD	Low et al., <i>Escherichia Coli and Salmonella, Cellular and Molecular Biology</i> , 2 <sup>nd</sup> Edition, Neidhardt et al. (eds.), ASM Press, Washington, D.C., 1996, Chapter 11, "Fimbriae," pp. 146-157.
	BE	Manen et al., "The <i>par</i> region of pSC101 affects plasmid copy number as well as stability," <i>Molecular Microbiology</i> 4(11): 1839-1846, 1990.
	BF	Marceau et al., "High adhesiveness of encapsulated <i>Neisseria meningitidis</i> to epithelial cells is associated with the formation of bundles of pili," <i>Molecular Microbiology</i> 17(5): 855-863, 1995.
	BG	Marceau et al., "Consequences of the loss of O-linked glycosylation of meningococcal type IV pilin on piliation and pilus-mediated adhesion," <i>Molecular Microbiology</i> 27(4): 705-715, 1998.
	BH	McSorley et al., "Vaccine Efficacy of <i>Salmonella</i> Strains Expressing Glycoprotein 63 with Different Promoters," <i>Infection and Immunity</i> 65(1): 171-178, January 1997.
	BI	Meacock and Cohen, "Partitioning of Bacterial Plasmids during Cell Division: a Cis-Acting Locus That Accomplishes Stable Plasmid Inheritance," <i>Cell</i> 20: 529-542, June 1980.
✓	BJ	Méchin et al., "Hydrophobic cluster analysis and secondary structure predictions revealed that major and minor structural subunits of K88-related adhesins of <i>Escherichia coli</i> share a common overall fold and differ structurally from other fimbrial subunits," <i>FEBS Letters</i> 364: 319-324, 1995.

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### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CB					

### OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

WJ	CC	Miller et al., "Role of DNA Superhelicity in Partitioning of the pSC101 Plasmid," <i>Cell</i> 62: 127-133, July 13, 1990.
	CD	Mol and Oudega, "Molecular and structural aspects of fimbriae biosynthesis and assembly in <i>Escherichia coli</i> ," <i>FEMS Microbiology Reviews</i> 19: 25-52, 1996.
	CE	Morris et al., "Stereochemical Quality of Protein Structure Coordinates," <i>Proteins: Structure, Function, and Genetics</i> 12: 345-364, 1992.
	CF	Müller et al., "Fimbriation Genes of <i>Salmonella enteritidis</i> ," <i>Journal of Bacteriology</i> 171(9): 4648-4654, September 1989.
	CG	Murzin et al., "SCOP: A Structural Classification of Proteins Database for the Investigation of Sequences and Structures," <i>J. Mol. Biol.</i> 247: 536-540, 1995.
	CH	Newton et al., "Expression and immunogenicity of an 18-residue epitope of HIV1 gp41 inserted in the flagellar protein of a <i>Salmonella</i> live vaccine," <i>Res. Microbiol.</i> 146: 203-216, 1995.
	CI	Newton et al., "Immune Response to Cholera Toxin Epitope Inserted in <i>Salmonella</i> Flagellin," <i>Science</i> 244: 70-72, April 7, 1989.
	CJ	Newton et al., "Expression and Immunogenicity of a Streptococcal M Protein Epitope Inserted in <i>Salmonella</i> Flagellin," <i>Infection and Immunity</i> 59(6): 2158-2165, June 1991.
	CK	Ogawa et al., "Antagonistic effect of synthetic peptides corresponding to the binding regions within fimbrial subunit protein from <i>Porphyromonas gingivalis</i> to human gingival fibroblasts," <i>Vaccine</i> 15(2): 230-236, 1997.
	CL	Olivier et al., "Modulation of Interferon- $\gamma$ -induced Macrophage Activation by Phosphotyrosine Phosphatases Inhibition," <i>The Journal of Biological Chemistry</i> 273(22): 13944-13949, May 29, 1998.

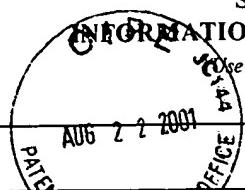
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<b>FOREIGN PATENT DOCUMENTS</b>							
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	DB					YES    NO	
<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
<i>WJ</i>	DC	Olsén et al., "The RpoS sigma factor relieves H-NS-mediated transcriptional repression of <i>csgA</i> , the subunit gene of fibronectin-binding curli in <i>Escherichia coli</i> ," <i>Molecular Microbiology</i> 7(4): 523-536, 1993.					
<i>WJ</i>	DD	Pallesen and Klemm, <i>Fimbriae: Adhesion, Genetics, Biogenesis, and Vaccines</i> , Klemm (ed.), CRC Press, Boca Raton, 1994, Chapter 19, "Chimeric Fimbrial Vaccines," pp. 271-276.					
<i>WJ</i>	DE	Paranchych, W., <i>The Bacteria XI</i> , Academic Press, Inc., 1990, Chapter 4, "Molecular Studies on N-Methylphenylalanine Pili," pp. 61-78.					
<i>WJ</i>	DF	Paranchych and Frost, "The Physiology and Biochemistry of Pili," <i>Advances in Microbial Physiology</i> 29: 53-114, 1988.					
<i>WJ</i>	DG	Parker and Hodges, "Prediction of Surface and Interior Regions in Proteins – Part II: Predicting Secondary Structure in Regions Bound by Surface Exposed Regions," <i>Peptide Research</i> 4(6): 355-363, 1991.					
<i>WJ</i>	DH	Parker and Hodges, "Prediction of Surface and Interior Regions in Proteins – Part I: Linear Tripeptide Sequences Identify Structural Boundaries in Proteins," <i>Peptide Research</i> 4(6): 347-354, 1991.					
<i>WJ</i>	DI	Pickersgill et al., "The structure of <i>Bacillus subtilis</i> pectate lysase in complex with calcium," <i>Structural Biology</i> 1(10): 717-723, October 1994.					
<i>WJ</i>	DJ	Römling et al., "Curli Fibers Are Highly Conserved between <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> with Respect to Operon Structure and Regulation," <i>Journal of Bacteriology</i> 180(3): 722-731, February 1998.					
<i>WJ</i>	DK	Römling et al., "Multicellular and aggregative behaviour of <i>Salmonella typhimurium</i> strains is controlled by mutations in the <i>agfD</i> promoter," <i>Molecular Microbiology</i> 28(2): 249-264, 1998.					
EXAMINER <i>Vanessa Jind</i>			DATE CONSIDERED <i>02/18/02</i>				
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	EB					

OTHER PRIOR ART (*Including Author, Title, Date, Pertinent Pages, Etc.*)

24	EC	Salmond, G.P.C., "Pili, peptidases and protein secretion: curious connections," <i>Trends in Microbiology</i> 4(12): 474-476, December 1996.
	ED	Shimizu and Morikawa, "The β-prism: a new folding motif," <i>TIBS</i> 21: 3-6, January 1996.
	EE	Shimizu et al., "Crystal structure of vitelline membrane outer layer protein I (VMO-I): a folding motif with homologous Greek key structures related by an internal three-fold symmetry," <i>The EMBO Journal</i> 13(5): 1003-1010, 1994.
	EF	Silverman, P.M., "Towards a structural biology of bacterial conjugation," <i>Molecular Microbiology</i> 23(3): 423-429, 1997.
	EG	Simons et al., "Morphological appearances of K88ab fimbriae and optical diffraction analysis of K88 paracrystalline structures," <i>FEMS Microbiology Letters</i> 118: 83-88, 1994.
	EH	Simons et al., "The penultimate tyrosine residue of the K99 fibrillar subunit is essential for stability of the protein and its interaction with the periplasmic carrier protein," <i>FEMS Microbiology Letters</i> 67: 107-112, 1990.
	EI	Sjöbring et al., "Plasminogen, absorbed by <i>Escherichia coli</i> expressing curli or by <i>Salmonella enteritidis</i> expressing thin aggregative fimbriae, can be activated by simultaneously captured tissue-type plasminogen activator (t-PA)," <i>Molecular Microbiology</i> 14(3): 443-452, 1994.
	EJ	Smyth et al., "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immunology and Medical Microbiology</i> 16: 127-139, 1996.
	EK	Spitzer et al., "Long-term protection of mice against <i>Leishmania major</i> with a synthetic peptide vaccine," <i>Vaccine</i> 17: 1298-1300, 1999.
24	EL	Steinbacher et al., "Crystal Structure of P22 Tailspike Protein: Interdigitated Subunits in a Thermostable Trimer," <i>Science</i> 265: 383-386, July 15, 1994.

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
FB					

**OTHER PRIOR ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

WJF	FC	Stentebjerg-Olesen, "Authentic display of a cholera toxin epitope by chimeric type 1 fimbriae: effects of insert position and host background," <i>Microbiology</i> 143: 2027-2038, 1997.
	FD	St. Geme III et al., " <i>Haemophilus influenzae</i> pili are composite structures assembled via the HifB chaperone," <i>Proc. Natl. Acad. Sci. USA</i> 93: 11913-11918, October 1996.
	FE	Strom and Lory, "Structure-Function and Biogenesis of the Type IV Pili," <i>Annu. Rev. Microbiol.</i> 47: 565-596, 1993.
	FF	Strugnell et al., "Stable expression of foreign antigens from the chromosome of <i>Salmonella typhimurium</i> vaccine strains," <i>Gene</i> 88: 57-63, 1990.
	FG	Sukupolvi et al., "Expression of Thin Aggregative Fimbriae Promotes Interaction of <i>Salmonella typhimurium</i> SR-11 with Mouse Small Intestinal Epithelial Cells," <i>Infection and Immunity</i> 65(12): 5320-5325, December 1997.
	FH	Sukupolvi et al., "Development of a Murine Model of Chronic <i>Salmonella</i> Infection," <i>Infection and Immunity</i> 65(2): 838-842, February 1997.
	FI	Tennent and Mattick, <i>Fimbriae: Adhesion, Genetics, Biogenesis, and Vaccines</i> , Klemm (ed.), CRC Press, Boca Raton, 1994, Chapter 9, "Type 4 Fimbriae," pp. 127-146.
	FJ	Thanassi et al., "The PapC usher forms an oligomeric channel: Implications for pilus biogenesis across the outer membrane," <i>Proc. Natl. Acad. Sci. USA</i> 95: 3146-3151, March 1998.
	FK	Thiry et al., "Cloning of DNA Sequences Encoding Foreign Peptides and Their Expression in the K88 Pili," <i>Applied and Environmental Microbiology</i> 55(4): 984-993, April 1989.
V	FL	Thorns et al., "The use of latex particle agglutination to specifically detect <i>Salmonella enteritidis</i> ," <i>International Journal of Food Microbiology</i> 21: 47-53, 1994.

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## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
	GB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MM	GC	Titus et al., "A limiting dilution assay for quantifying <i>Leishmania major</i> in tissues of infected mice," <i>Parasite Immunology</i> 7: 545-555, 1985.
	GD	van Der Zee et al., "P-fimbriae of <i>Escherichia coli</i> as carriers for gonadotropin releasing hormone: development of a recombinant contraceptive vaccine," <i>Vaccine</i> 13(8): 753-758, 1995.
	GE	van Die et al., "Expression of foreign epitopes in P-fimbriae of <i>Escherichia coli</i> ," <i>Mol. Gen. Genet.</i> 222: 297-303, 1990.
	GF	Vanegas et al., "In a vaccine model, selected substitution of a highly stimulatory T cell epitope of hen's egg lysozyme into a <i>Salmonella</i> flagellin does not result in a homologous, specific, cellular immune response and may alter the way in which the total antigen is processed," <i>Vaccine</i> 15(3): 321-324, 1997.
	GG	Verma et al., "Induction of a cellular immune response to a defined T-cell epitope as an insert in the flagellin of a live vaccine strain of <i>Salmonella</i> ," <i>Vaccine</i> 13(3): 235-244, 1995.
	GH	Verma et al., "Delivery of class I and class II MHC-restricted T-cell epitopes of listeriolysin of <i>Listeria monocytogenes</i> by attenuated <i>Salmonella</i> ," <i>Vaccine</i> 13(2): 142-150, 1995.
	GI	Vidal et al., "Isolation of an <i>Escherichia coli</i> K-12 Mutant Strain Able To Form Biofilms on Inert Surfaces: Involvement of a New <i>ompR</i> Allele That Increases Curli Expression," <i>Journal of Bacteriology</i> 180(9): 2442-2449, May 1998.
	GJ	Wahle and Kornberg, "The partition locus of plasmid pSC101 is a specific binding site for DNA gyrase," <i>The EMBO Journal</i> 7(6): 1889-1895, June 1988.
	GK	White et al., "High efficiency gene replacement in <i>Salmonella enteritidis</i> : chimeric fimbriae containing a T-cell epitope from <i>Leishmania major</i> ," <i>Vaccine</i> 17: 2150-2161, 1999.

EXAMINER	<i>Vanegas, J. M.</i>	DATE CONSIDERED	<i>02/18/02</i>
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<b>OTHER PRIOR ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
HC	Whittaker et al., "Mechanisms of Adhesion by Oral Bacteria," <i>Annu. Rev. Microbiol.</i> 50: 513-552, 1996.					
HD	Wishart et al., "SEQSEE: a comprehensive program suite for protein sequence analysis," <i>Comput. Appl. Biosci.</i> 10(2): 121-132, 1994.					
HE	Wu et al., "Expression of immunogenic epitopes of hepatitis B surface antigen with hybrid flagellin proteins by a vaccine strain of <i>Salmonella</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 86: 4726-4730, June 1989.					
HF	Xu et al., "Protection against <i>Leishmania major</i> infection in genetically susceptible BALB/c mice by GP63 delivered orally in attenuated <i>Salmonella typhimurium</i> (AroA <sup>-</sup> AroD <sup>-</sup> )," <i>Immunology</i> 85: 1-7, 1995.					
HG	Yoder and Jurnak, "The parallel $\beta$ helix and other coiled folds," <i>FASEB J.</i> 9(5): 335-342, March 1995.					
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